THE PLOTTER

CLACKAMAS COUNTY AREA T/S USERS GROUP NEUSLETTER

> *** VQLUME 2. NUMBER 11 ****

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MEETING5

Almost time for another meeting, so had better get this off to all of our loyal readers. Hope that you enjoy this month's offerings.

Our October meeting was called to order at 7:45 P.M. on October 5th, in Rm 142, Clairmont Hall, CCC. After announcements, Sec/Treas. report, and notices, we ant to Old Business. We asked yain for someone to bring a copy of a subscription form for Sinclair Computing. As yet we have not received one. As that was all of the Old Business, we went on to New Business.

NEW BUSINESS: It was Proposed and passed by majority vote to change the office of Vice-Chairman to that of Vice-Chairman/ Secretary. That leaves the post of Treasurer by itself. We then opened nominations for all elected officers. The nominations Will remain open until November 15, 1984. The election this year will be by written ballot. The ballots will be mailed out with the December newsletter. We will that the ballots be brought the December meeting or, if to unable to attend, that they be mailed to the newsletter. If you want to be counted, and want to have a say in who is elected, be SUFE to vote. EITHER WAY!

The following nominations were made to date:

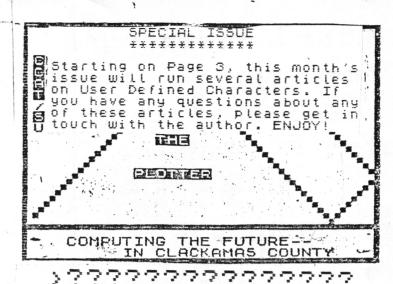
CHAIRMAN.

Dennis Jurries Dick Wagner Jack Armstrong

DE-CHAIRMAN/SEC.: Rick Read Bob Cole Vince Lyon

Treasurer:

Rod Gowen



Any suggestions? Bring them to the November meeting. It will be held:

on: FRIDAY, NOV. 2, 1984 at: 7:30 P. M.

in: Rm 142, CLAIRMONT HALL

There was also a short report on the OMSI COMPUTER FAIR. We had a table along with PATS group. There was a good turnout at the fair. We hope that we will get a little more notice next year.

HOPE TO SEE ALL OF YOU AT THE MEETING!

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FROM THE EDITOR'S DESK

It hardly seems possible, but in December, our little group will start into it's third year. We sincerely hope that we will be around after another three or perhaps more. It has been a very enjoyable time for most of us. We hope that your time with us has been the same for you.

With the new year we get new officers, with your help. To make
sure that your voice is heard,
be sure to put in your nominations and be sure to vote in December.

With our growing circulation, we are looking forward to making a few improvements in your news-letter. Watch for the improvements.

As we are a growing group with a growing exchange of newsletters, we are getting a lot of new material and ideas. This does not mean that we can relax our own efforts within our local group to produce new material and ideas. We are getting more new material from our own members, but we still need your help. We cannot continue to grow and learn without interest, YOURS!! Please read a book, try a new or different program, write a program or write an article and submit it for publication.

TILL NEXT TIME * * *

*********** HARDWARE REVIEW

HARDWARE Dick Wagner A Radio Shack No. 274-301 Signal Reducer is handy to make that tape recording without using your computer. Plug this adapter into the EAR jack of a spare recorder and copy onto your regular cassette recorder. Just connect a cable between the adapter and MIC and you are The only volume to in business. adjust is the originating player and that should be normal for your computer. You can also copy while LOADing into your computer.

BITS and BYTES

Here we are again with more Bits and Bytes of news from the world of ZX/TS. We hope that in this column each of you will find at least one piece of news that will be of some use to you.

SPECIAL- This month we are devoting a great deal of our newsletter to User Defined Charactletter to User Defined Characters. We have four of our own
members to thank for these informative and, we hope, helpful
articles. As noted, if anyone
has any questions regarding the ideas and procedures published here, please feel free to contact the author. Next most act the author. Next month we will return to our more or less normal format.

> FAM SIG- Family Computing has bought up some time and space on CIS (Compuserye Information Serice). If you have a modem, then you can log on ond GO FAM. Who knows? You may find some information that proves to be useful.

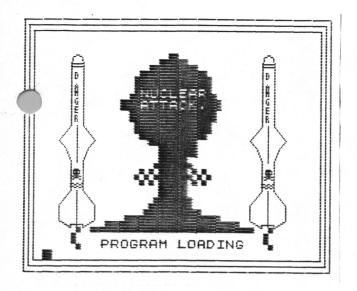
ELECTIONS- Don't forget to vote! Both in the National elections and in our elections in Dec. Use your right, BE HEARD!!

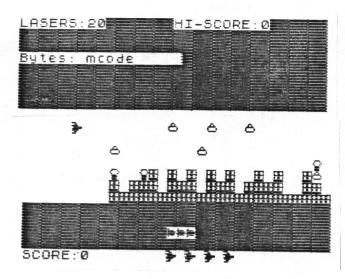
MD68 UPDATE- Anyone who has an MD-68 Modem and would like to have a copy of an updated version of the software, please get
in touch with Rod Gowen, of RMG
Enterprises, 655-7484, to get a
free copy. It is not the final
version, but it will allow you
to print from the screen and
will allow you to download data will allow you to download data into memory to use it later. When the final version is available, you will get a free copy of it also.

SMART II- The Smart Terminal II software for the 2050 modem has arrived! RMG has sold some copies and very quickly found out that it has some drawbacks. The worst is the almost total lack of useful information in the socalled manual. It lacks several very important instructions, not the least of which is how to transmit data and/or programs. Dennis Jurries has worked out some of the commands and we have talked with Ed Grey of a users group in Calif., and one of the members of his group has written an addendum to the manual and Ed promised to send us a copy along With a copy of their newsletter.

NEW SAMS BOOK- Your local book-store can now get the long aw-aited second book, The Intermed-iate/Advanced 2068 Manual for you. It sells for \$9.95.

PARALELL I/F- Dennis Jurries is, amoung all his other projects, working on a paralell I/F to enable the use of Tasword II with an 80 column printer. We wish him luck with this as well as all his other projects.















USER

DEFINED

CHARACTERS

CHARACERS ON THE 1000 PART 1 Dick Wagner

The 1000 computer does not provide access to the smallest dot the computer increment or produces. PLOT is made up of 16 dots and uses 1/4 of the normal character space as do several GRAPHIC symbols; these

are what we have to work with. We can however see how the various characters are made. By using a monitor or TV with good resolution we can observe the composition of these, in the form of dots. The normal space provides for a format of 8x8 d provides for a format of 8x8 do to make GRAPHIC SPACE and other 8x8 dot symbols on the keys. However, other characters must provide a surrounding space of at least 1 row on all sides so letters, etc have 2/8 of a space between them. Thus the letters and numbers are limited to a format of To observe this make 6x6 dots. line program as: D PRINT " **=** " UP a

īø' 20 PRINT :: 30 PRINT

where **≣** is CHR\$ 8 GRAPHIC A. A good TV will display CHR\$ 8 as is CHR\$ 8 GRAPHIC rows of dots staggard with 4 ots per row. Thus 2 rows will dots per display 8 dots.

Change line 20 with a desire symbol in the second position. Z and M show the clear boundary on all sides. Quotes, period, comma, & other punctuation marks use the fewest dots and our

little program will show where they are in relation to the character space. For instance a period is 2 dots high and 1 dot wide while a "," is 3x2. wide while a

e while a "," is 3x2. The designers of the Sinclair Basic had to work within the limits of the 6x6 format. We study how the designers elected to make diagonal and curved lines, which is really a challenge to make intelligent marks on the screen.

A later article will show how to extract the character format that is stored in binary form and enlarge the image 8 time larger. Be prepared for some surprises!

PART 2 Dick Wagner

If you tried the example in Part 1 you probably had difficulty in picking out each dot. By enlarging the character we can then see them. This program from the magazine SYNCHRO-SETTE will print most characters 8 times larger. Because of the Program structure not all keyboard characters will work. The enlarged characters will look crude because of forming with a square instead of a rounded pixel.

> 10 LET 5=0 20 PRINT AT 0,0; "ENTER ANY CHARACTER:::" 25 INPUT A±

> > (Cont. next page) |

30 LET P=7

40 LET F=CODE A\$

50 LET F=8*F-8

100 FOR B=7688+F TO 7688+F+7

110 LET A=PEEK B

120 FOR I=7 TO 0 STEP-1

130 PRINT AT 21-P, I+S;
CHR\$ ((A-2*INT (A/2))*

128)

140 LET A=INT (A/2)

150 NEXT I

150 NEXT I

Use the following program to insert your character into one of the 21 user defined graphics character keys A to U.

1000 FOR a=USR"e" TO USR "e"+7

1010 READ b:POKE a,b

1020 NEXT a

1030 DATA 64,68,72,80,42,74,15

The above 21 user defined 150 NEXT I
160 LET P=P-1
170 NEXT B
180 LET S=S+8
180 LET S=S+8
190 IF S>25 THEN GOTO 300
200 GOTO 20
300 FOR N=1 TO 8
310 SCROLL
320 NEXT N
330 GOTO 10
9998 SAVE "BIG/CHAR EXAM"
9999 RUN

7 The above 21 user defined
graphics characters are, as are
the standard character set for
the computer set up and controlled by a ROM subroutine. In
order to use more than those 21
you will have to bypass the ROM
routine for the standard charact
-er set and instead goto RAM.

According to the 2068

Next draw in your character as shown in the manuel filling in the small boxes that your lines pass through. The next step is to at the right of each row of small boxes add up the total value of all of the boxes in that row. As an example the 1/4 symbol used in the manuel; row 1: 64, row 2: 64+4, row 3:64+8, row 4: 64+8+2, row 7: 8+4+2+1; row 8: 2.

Read in characters to replace

16 ower case letters

200 FOR n=65 TO 90

210 FOR i=0 TO 7

220 READ x

230 POKE 64500+i+8*n, x

240 NEXT i

250 NEXT n

Take last 5 chacters from ROM & put in RAM

260 FOR n=91 TO 95

270 FOR i=0 TO 7

280 POKE 64500+i+8*n, PEEK (a+i+8*n)

290 NEXT n

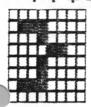
300 NEXT n

8000 DATA

It is possible that with just the 21 UDG's and the character set redefined to now have 118 User defined graphic characters. Make up the data statements as in the 21 UDG's.

To use after running POKE 23606,244: POKE 23607,250. To 90 back to the standard character set just POKE 23606,0: POKE 23607,60.

\$\$\$**\$\$\$\$**\$\$\$\$\$\$\$



0 112 15 12 16 CHR\$ 125 } 16 112 0

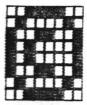
For all of the T/S 2068 users who want a better way to use the capabilities of the computer to enhance their games or even to dress up their more serious programs, here is a way to define their graphics without resorting to using the binary code suggested in the owners manual. That method requires inputting 64 numbers for each character & this method only needs 8 numbers for each character. you do need to make a graph for all the combinations.

I have made such a graph and I would be happy to show it to any member who is interested. If there are enough people interested I could be persuaded to ested I could be persuaded to make up one for reproduction so anyone could have it handy to refer to when programming userdefined graphics—you soon get to find the numbers easily after the pattern begins to sink inmany numbers will be used over and over, so it gets easier with use.

Yours for Happy Computing,
UACK ARMSTRONG
This little routine will poke
numbers into locations in ROM
which will give you user-defined
raphics on lower case keys in
graphics mode - you can use all
the letters from a through u
inclusive.

FOR a=USR "a" TO USR "a"+7 READ user: POKE a,user: NEXT a DATA 255,129,129,129,129,129

☐ is the character you will get on the "a" key.



60 153 161 161 CHR\$ 127 © 153 66

COMPUTER CHARACTER FORMAT T/S 1000 & 2068 Dick Wagner

Jack Armstrong's 4 line program for character generation
uses decimal values of binary
numbers in the DATA statement.
The same system applies to the
T/S 1000 but we cannot access
seneration unless we make up
characters in a large 8x8 format such as some programs provide. Now is a good time to
look into character format.

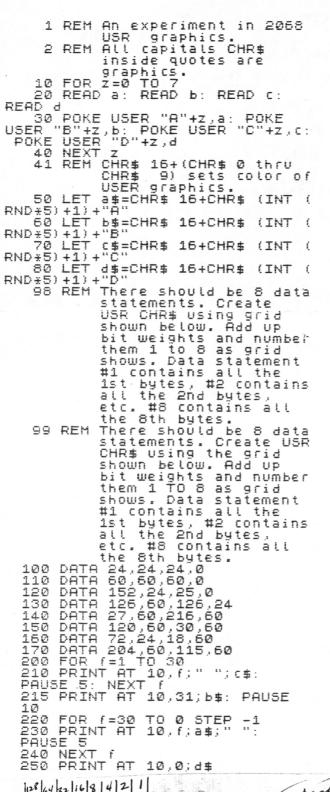
By making a diagram we can arrive at the decimal values of the 8 column by 8 line character format. Zero thru 7 lists the columns. The 8 rows must be used from the top down. The DEC column is the decimal values of the 1 & 0 locations across the chart. Input these values into the DATA line for columns 0 to 7 in this order and you will have the / on the U key and on the A key.

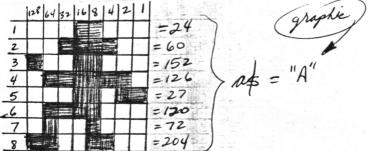
To return the a key to normal either repower the computer or use Jack's program and define a by this chart.

We have also produced a simple diagram that gives us one method to easily read the binary number of any row by using the applicable DEC numbers. If rows 1 & 8 are full of 1's the number is the sum of the DEC column or 255. If rows 2 thru 7 have a 1 in columns Ø & 7 the DEC number is 1+128 or 129. Thus we have Jack's DATA line formed which produces an empty square. Change row 4 to 1+8+128 and we have a square with a dot in the center.

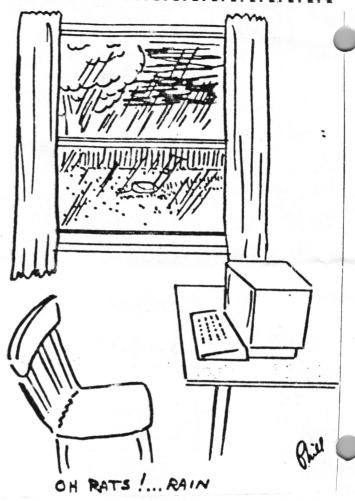
with a dot in the center. Let your computer compute the the DATA input by adding the values by inputting 1+8+128 between ,'s.

Ø Ø Ξ Ø Ø 1 010 Ø Ø ō 8 0 16 SISISI Ø Ø Ø 32 Ø Ø Ø 64 Ø 10 Ø Ø Ø Ø Ø 128

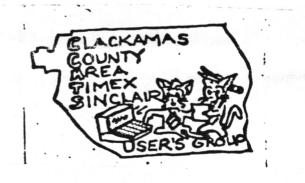




%%%%%%%%%%%%%%



Thanks to Paul Hill, SINCUS



All memberships expire on December 31, 1984. If you have not already renewed, now is a good time to do so. Avoid the rush, do it early.

E

ZX / TS and P

TREASURE CHESTS OF NIM Dick Wagner

This game is from the book "GAMES FOR YOUR T-S 1000" by Mark Charlton and published by DELL. I have shown a conversion to play on the 2068.
You use keys 1,2 or 3 with the goal to take the last chest.

10 RAND

50 PRINT AT 12,0; "HOW MANY CHES TS WILL YOU REMOVE?" 60 LET R=CODE INKEY\$-28 70 IF R<1 OR R>3 THEN GOTO 60 80 PRINT AT 12,0;"

":AT 9,0;"

90 LET P=P-R 100 PRINT AT 5,5;P;" CHEST";"S" AND P<>1;" LEFT ";AT 8,0;"YOU RE MOVED_";R; 105 GOSÚB

100 G0006 110 IF P<1 THEN GOTO 220 120 LET N=INT (P/4) *4 130 IF P <>N THEN LET R=P-N .50 LET P=P-R 160 PRINT AT 9,0;"I REMOVED ";R 165 GOSUB 240

165 GOSUB 240 170 PRINT AT 5,5;P;" CHEST";"S" AND P<>1;" LEFT " 180 IF P<1 THEN GOTO 200

190

GOTO 40 PRINT AT 0,0;"\$\$\$ I WIN \$\$\$ 200

210 STOP PRINT AT 0,0;"\$\$\$ YOU WIN \$ 220 \$\$" 230 STOP

240 FOR A=1 TO 10 250 PRINT AT 0,P;" **|||||**" (TO R);AT 0,P;"__" (TO R)

260 NEXT A

RETURN 300 SAVE "NIM" 310 RUN

To be compatable with the 2068 we must start our count from 48 instead of 28 as Ø is CODE 48. CODE 28 is Ø on the 1000.

#!!A GOOD BUY!!#

Hollywood Computers, on 40th & Broadway, in Portland, has a very good deal on an Epson RX 80 80 Column Dot Matrix printer. ly \$249.95!! If you want a recommendation, get in touch with Terry Abrahamson. She can tell you what it is capable of.

******** Just for FUN try this ******* 01 CLS 05 INK 0: ON ERR GO TO 1 10 INPUT INKO; "Enter Number";n 15 IF n (210 THEN GO TO 10 17 IF n>800 THEN GO TO 10 20 INPUT INKO; "Enter Ink";i 25 IF i (0 THEN GO TO 20 30 IF i >7 THEN GO TO 20 35 CLS 40 INK i; PLOT 75,85: DRAH 50,50 42 REM 50,50 can be changed to 25,25 43 PRINT #1; AT 0,0; PRESS Z for copy to PRINTER* 45 PRINT #1; AT 0,0; Press any other key to continue*
46 IF INKEY\$=** THEN GO TO 46 49 IF INKEYS="Z" THEN COPY : LPRINT "Number":n:LPRINT: LPRINT 50 GO TO 10

NOTICE NOTICE

Here is a list of computer BBS

(Bulletin Board Systems): Commodore PDX......620-6642 284-3524 Backwater Msg System....230-1041 Bee-color (Aloha)626-8343 Greak ✓ CBB5/NU......646-5510 284-5260

657-9526 Dune BB5.....297-7413 Whispering Pines......682-0686

Nerdolux.....283-2983

Connection 80......281-7653

Stan's BBS...............775-5779 DYM.....235-1437

GALF.....284-0477

O.L.E.....626-0228

TIBBS.....661-0400

KAMAS......238-6572

This list is not to be considered a complete list of all local Boards. If anyone knows of any that we have missed, please feel free to submit them to The Plotter. We will publish updates from time to time.

%%%%%%%%%%%%%%% CLASSIFIED ADS *********

FOR SALE

1-IBM Selectric typewriter. In very good condition. \$300.00 Call Dennis Jurries 655-9670

RMG ENTERPRISES

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